In the Claims:

Please cancel Claims 4, 18, 33, 48 and 62.

In Claim 5, line 1, delete "4" and insert -- 3 --.

In Claim 19, line 1, delete "18" and insert -- 17 --.

In-Claim 34, line 1, delete "33" and insert -- 32 --.

In Claim 49, line 1, delete "48 and insert -- 47 --.

In Claim 63, line 1, delete "62" and insert -- 61 --.

Please amend Claims 1, 15, 29, 44 and 59 as follows:

- 1. (Amended) An in vivo method of [therapeutic or prophylactic genetic immunization of] treating a mammalian host, which comprises:
- (a) generating a DNA fragment which expresses an antigenic protein or antigenic protein fragment;
- (b) distributing said DNA fragment on a particle surface, resulting in a particulate polynucleotide;
- (c) inoculating said mammalian host with said particulate polynucleotide; and,
- delivering said particulate polynucleotide to the cytoplasm of [a target] an antigen presenting cell within said mammalian host, such that said expressed antigenic protein or antigenic protein fragment is presented to the membrane surface of said [target] antigen presenting cell through the MHC class I pathway wherein said presentation of said antigenic protein or protein fragment selicits an immune response in said host.
 - 15. (Amended) An *in vivo* method of [therapeutic or prophylactic genetic immunization of] treating a mammalian host, which comprises:
 - (a) generating a DNA fragment which expresses an antigenic protein or antigenic protein fragment;
 - (b) distributing said DNA fragment on a particle surface, resulting in a particulate polynucleotide;
 - (c) inoculating said mammalian host with said particulate polynucleotide using a biolistic device; and,
 - (d) delivering said particulate polynucleotide to the cytoplasm of [a target] an antigen presenting cell within said mammalian host, such that said expressed antigenic protein or antigenic protein fragment is presented to

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the membrane surface of said [target] antigen presenting cell through the MHC class I pathway, wherein said presentation of said antigenic protein or protein fragment elicits an immune response in said host.

- 29. (Amended) An *in vivo* method of [therapeutic or prophylactic genetic immunization of] treating a mammalian host, which comprises:
- (a) generating a DNA fragment which expresses an antigenic protein or antigenic protein fragment;
- (b) distributing said DNA fragment on a particle surface, resulting in a particulate polynucleotide;
- (d) inoculating said mammalian host with said particulate polynucleotide by direct injection; and,
- (d) delivering said particulate polynucleotide to the cytoplasm of [a target] an antigen presenting cell within said mammalian host, such that said expressed antigenic protein or antigenic protein fragment is presented to the membrane surface of said [target] antigen presenting cell through the MHC class I pathway, wherein said presentation of said antigenic protein or protein fragment elicits an immune response in said host.
- 44. (Amended) An ex vivo method of [therapeutic or prophylactic genetic immunization of] treating a mammalian host, which comprises:
- (a) generating a DNA fragment which expresses an antigenic protein or antigenic protein fragment;
- (b) distributing said DNA fragment on a particle surface, resulting in a particulate polynucleotide;
- (d) delivering said particulate polynucleotide to the cytoplasm of [a target] an antigen presenting cell of a mammalian host in vitro, such that said expressed antigenic protein or antigenic protein fragment is presented on the membrane surface of said [target] antigen presenting cell through the MHC class I pathway, wherein said presentation of said antigenic protein or protein fragment elicits an immune response in said host; and,
- (d) inoculating said mammalian host with said [target] antigen presenting cell by direct injection.

59. (Twice amended) An ex vivo method of [therapeutic or prophylactic genetic immunization of] treating a mammalian host, which comprises:

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